

Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1. (Currently Amended) A method for modifying a sound reproduction of a music file according to a transmission characteristic of a loudspeaker of a mobile terminal of a wireless communication system, the method comprising:

identifying audio data in the music file which represent a sound with a spectral component below a transmission frequency range of the loudspeaker; and

modifying a sound reproduction of the identified audio data such that the modified sound reproduction yields a sound spectrum having an increased energy content within the transmission frequency range of the loudspeaker as compared to a sound spectrum of an unmodified sound reproduction,

wherein the music file is a music score file, and wherein the modified sound reproduction is based on replacing a specification provided in the music score file for an instrument used to reproduce sound from the identified audio data with a substitute specification of an instrument with brighter timbre in accordance with the transmission frequency range of the loudspeaker.

2. (Previously Presented) A method according to claim 1, wherein the instrument of the substitute specification belongs to a same category of instruments as the instrument of the specification provided in the music file.

3. (Previously Presented) A method according to claim 1, wherein more than one substitute specification is available, and wherein a particular substitute specification is selected based on a register in which the instrument of the specification provided in the music file is to be replayed.

4.-6. (Canceled).

7. (Previously Presented) A method according to claim 1, wherein the modified sound reproduction is based on a modified parameter file.

8. (Previously Presented) A method according to claim 1, wherein the modified sound reproduction is based on a modified FM-spectra file.

9. (Previously Presented) A method according to claim 1, wherein a format of the music file corresponds to a MIDI data file format.

10. (Currently Amended) An apparatus for rendering sampled data from a music file according to a transmission characteristic of a loudspeaker of a mobile terminal of a wireless communication system, the apparatus comprising:

storage means for storing the music file and data related to transmission characteristics of one or more loudspeakers,

selection means for selecting data for a particular loudspeaker from the storage means,
low frequency sound identification means for identifying audio data in the music file which represent a sound with a spectral component below a transmission frequency range of the particular loudspeaker corresponding to the selected data,

control means for controlling a modification of a sound reproduction from the identified audio data such that the modified sound reproduction yields a sound spectrum having an increased energy content within the transmission frequency range of the particular loudspeaker as compared to a sound spectrum of an unmodified sound reproduction; and

synthesizing means for synthesizing sampled data from a modified music file,
wherein the music file is a music score file, and wherein the control means modifies the music score file to provide the modified music file by replacing a specification of an instrument provided in the music score file for the identified audio data with a substitute specification of an instrument having brighter timbre in accordance with the transmission frequency range of the loudspeaker.

11. (Previously Presented) An apparatus according to claim 10, wherein the control means is configured to store modified audio data representing the modified sound reproduction in a music file in the storage means of the apparatus.

12. (Previously Presented) An apparatus according to claim 10, wherein the control means is configured to modify the sound reproduction at a time a respective music file is replayed via the loudspeaker.

13. (Previously Presented) A mobile terminal for use with a wireless communication system and configured to reproduce audio data from a music file, the mobile terminal comprising:

an apparatus according to claim 10 configured to render sampled data from the music score file;

a transformation means configured to transform the sampled data obtained from the apparatus into an analog electrical signal; and

a loudspeaker configured to convert the analog electrical signal into a sound signal.

14. (Previously Presented) A computer program product for modifying a sound reproduction of a music file according to a transmission characteristic of a loudspeaker of a mobile terminal of a wireless communication system, the computer program product comprising:

a non-transitory computer readable storage medium having computer readable program code embodied therein that is configured to be processed by a data processing means of the mobile terminal to carry out a method according to claim 1.

15. (Canceled).

16. (Previously Presented) An apparatus according to claim 10, wherein the control means modifies the music score file to provide the modified music file by transposing an entirety of the frequency data in the music score file to a higher frequency range.

17. (New) An apparatus according to claim 10, wherein the instrument of the substitute specification belongs to a same category of instrument as the instrument of the specification provided in the music score file.

18. (New) An apparatus according to claim 10, wherein the substitute specification is selected based on a register in which the instrument of the specification provided in the music score file is to be replayed.

19. (New) A method of for modifying a sound reproduction according to a transmission characteristic of a loudspeaker of a mobile terminal, the method comprising:

identifying, in a music score file, audio data that represents sound having a spectral component below a transmission frequency range of the loudspeaker;

identifying, in the music score file, a specification of an instrument that is associated with sound reproduction for the identified audio data; and

replacing the specification provided in the music score file with a substitute specification of an instrument having brighter timbre in accordance with the transmission frequency range of the loudspeaker, wherein the instrument of the substitute specification belongs to a same instrument category as the instrument of the specification provided in the music score file and is selected based on a register in which the instrument of the specification provided in the music score file is to be replayed,

wherein said replacing provides a modified sound reproduction of the music score file having a sound spectrum with an increased energy content within the transmission frequency range of the loudspeaker as compared to that of an unmodified sound reproduction of the music score file.